

# PMI

## Exam Questions PMI-CPMAI

PMI Certified Professional in Managing AI



#### NEW QUESTION 1

A financial services firm is integrating AI to enhance fraud detection. To oversee data evaluation, the project manager needs to ensure the integrity and accuracy of input data, including transaction histories and customer profiles. Which method provides the results that address the requirements?

- A. Utilizing a prompt pattern to guide the AI model's training process
- B. Using a fact checklist to systematically verify data sources
- C. Implementing alternative approaches to process data differently
- D. Applying a visualization generator to create data flow diagrams

Answer: B

#### NEW QUESTION 2

A project manager is tasked with ensuring that an AI project complies with data regulations before data collection begins. This involves identifying all necessary requirements for trustworthy AI, including ethical considerations, privacy, and transparency. What should the project manager do first?

- A. Draft a detailed data governance framework to be reviewed later.
- B. Perform a comprehensive assessment of data regulations and compliance requirements.
- C. Schedule a meeting with stakeholders to discuss potential data collection compliance issues.
- D. Develop a high-level strategy for data collection and aggregation.

Answer: B

#### NEW QUESTION 3

After implementing an iteration of an AI solution, the project manager realizes that the system is not scalable due to high maintenance requirements. What is an effective way to address this issue?

- A. Switch to a rule-based system to reduce maintenance complexity.
- B. Incorporate a generative AI approach to streamline model updates.
- C. Adopt a modular architecture to isolate different system components.
- D. Utilize cloud-based solutions to enhance maintenance scalability.

Answer: C

#### NEW QUESTION 4

A project team is currently evaluating an AI solution. They need to ensure the machine learning model provides the expected business benefits. Which critical factor should the project manager assess?

- A. Maximization of model interpretability
- B. Alignment with key performance indicators
- C. Minimization of human intervention
- D. Volume of training data

Answer: B

#### NEW QUESTION 5

A project team is using a generative AI assistant to draft stakeholder communications. The drafts are often generic and miss project constraints. What is the most likely cause?

- A. The prompts provide insufficient context and constraints
- B. The model is too efficient
- C. The tool requires more compute
- D. The team is over-monitoring outputs

Answer: A

#### NEW QUESTION 6

A telecommunications company is implementing an AI solution to optimize network performance. The project team needs to prepare the data for the AI system by addressing data format inconsistencies. Which method should the project manager use?

- A. Determining the necessary data transformation steps
- B. Evaluating the potential impact of data breaches
- C. Implementing a data governance framework
- D. Creating a comprehensive data quality report

Answer: A

#### NEW QUESTION 7

A retail bank wants to reduce fraudulent transactions by detecting unusual card activity in near real time. Which AI capability should be used?

- A. Predictive analytics
- B. Conversational
- C. Hyperpersonalization
- D. Autonomous systems

**Answer:** A

**NEW QUESTION 8**

An aerospace company's project team is evaluating data quality before preparing data for AI models to predict maintenance needs. They are facing challenges with streaming data. If the project team were dealing with batch data, how would the result be different?

- A. Batch data is easier to manage the data inflow.
- B. Batch data requires a higher need for data augmentation.
- C. Batch data has more complex data conflicts.
- D. Batch data has greater inconsistency in the data.

**Answer:** A

**NEW QUESTION 9**

An aerospace company is integrating AI into their manufacturing process to enhance safety and efficiency. The project team needs to evaluate potential security threats to prevent unauthorized access to sensitive data. What is the highest risk?

- A. Employing a proprietary software with no open-source review
- B. Implementing an AI model without regular data updates
- C. Operationalizing a decentralized data storage system
- D. Secure APIs and data flows by enforcing data governance

**Answer:** C

**NEW QUESTION 10**

A manufacturing firm is planning to implement a network of intelligent machines to increase efficiency on the assembly line. The machines are equipped with advanced AI capabilities including precision assembly, quality control for predictive maintenance, and real-time data analysis. The intelligent machines should enhance operational efficiency, reduce downtime, and improve product quality. There needs to be seamless communication between the machines and existing systems, compliance with industry regulations, and a managed transition for the workforce. What is a beneficial outcome of using intelligent machines in this environment?

- A. Scalability and flexibility in production
- B. Over-reliance on technology leading to skill degradation
- C. Higher investment costs without immediate returns
- D. Increased vulnerability to cybersecurity threats

**Answer:** A

**NEW QUESTION 10**

During the transition to an AI solution, the project manager discovers that certain tasks may not require cognitive AI capabilities and can be handled through traditional automation methods. As a result, the project team starts segregating tasks based on their cognitive requirements. What should the team consider?

- A. Proceeding with intelligent functionalities
- B. Applying AI capabilities for noncognitive tasks
- C. Utilizing traditional automation solutions
- D. Assessing traditional task complexity

**Answer:** C

**NEW QUESTION 15**

A company plans to operationalize an AI solution. The project manager needs to ensure model performance is meeting selected thresholds before release. What is an effective way to confirm these thresholds before this release?

- A. Testing against validation datasets
- B. Implementing an impact evaluation
- C. Running multiple end-user acceptance tests
- D. Conducting a series of penetration tests

**Answer:** A

**NEW QUESTION 20**

An AI project team has prepared the data and is ready to proceed with model development. Which action should the project manager perform next?

- A. Conduct a final assessment of the data quality
- B. Document the performance metrics for the model
- C. Ensure go/no-go questions have well-defined answers
- D. Prepare a report on the model's scalability

**Answer:** B

**NEW QUESTION 23**

An IT services company is developing an AI system to automate network security monitoring. The project manager needs to consider various factors to mitigate risks associated with false positives and false negatives.

Which action should the project manager implement?

- A. Operationalizing the nearest neighbor detection algorithms
- B. Conducting model combinations and trade-offs
- C. Implementing a robust data security validation process
- D. Establishing a continuous feedback loop with security

**Answer: D**

#### NEW QUESTION 24

A project manager is tasked with explaining the AI model's decision-making process to the board of directors. The board members are nontechnical and require a comprehensible explanation to help ensure the model's decisions align with business objectives.

Which action should the project manager take?

- A. Use confusion matrices to demonstrate true positives, false positives, and overall model accuracy.
- B. Illustrate the decision pathway using LIME (local interpretable model-agnostic explanations) for localized interpretability.
- C. Show how precision-recall trade-offs influence decision outcomes.
- D. Present the model's ROC (receiver operating characteristic) curve and discuss the optimal threshold for decision making.

**Answer: B**

#### NEW QUESTION 26

A healthcare provider plans to deploy an AI system to predict patient readmissions. The project manager needs to conduct a risk assessment to ensure patient safety and data integrity. What is an effective method to help ensure the AI system adheres to ethical standards?

- A. Implementing a data encryption protocol
- B. Using an explainability framework
- C. Performing continuous monitoring and auditing
- D. Conducting a stakeholder impact analysis

**Answer: C**

#### NEW QUESTION 29

An aerospace company is in the data preparation phase of an AI project. The project team must verify data quality to make a go/no-go decision for model development. They need to integrate data from several sensors with different sampling rates.

What is an effective method that helps to ensure data consistency?

- A. Developing a custom data integration framework
- B. Utilizing data interpolation methods
- C. Applying a real-time data synchronization protocol
- D. Aggregating sensor data

**Answer: B**

#### NEW QUESTION 33

A project team is tasked with ensuring all AI-related decisions and actions are documented comprehensively for future auditing purposes. They need to track the reasons for specific AI choices, their impacts, and any issues encountered during the implementation.

What is represented in this situation?

- A. Operational efficiency
- B. Strategic alignment
- C. Compliance management
- D. Transparency

**Answer: D**

#### NEW QUESTION 37

A hospital wants to develop a medical records system with the primary goal of minimizing or eliminating paper records. They have identified where the cognitive AI solution will be applied. In addition, business objectives have been quantified and key performance indicators (KPIs) have been determined.

What else needs to be done to progress to the next Cognitive Project Management for AI (CPMAI) phase?

- A. Determine the project ROI
- B. Begin prototype development
- C. Create interdepartmental strategies
- D. Explore external data sources

**Answer: A**

#### NEW QUESTION 40

An aerospace company is integrating AI for predictive maintenance. The project manager is concerned about potential delays due to external dependencies. Which initial step should the project manager take?

- A. Increase resource allocation
- B. Implement just-in-time inventory
- C. Establish contingency plans
- D. Engage with multiple suppliers

Answer: D

**NEW QUESTION 42**

A project team at an IT services company is developing an AI solution to enhance network security. They need to define the success criteria to help ensure the project achieves its desired outcomes.

What should the project manager do to define the relevant success criteria?

- A. Implement machine learning (ML) algorithms for threat prediction
- B. Use key performance indicators (KPIs) for incident response times and threat detection rates
- C. Conduct a SWOT (strengths, weaknesses, opportunities, threats) analysis of the network infrastructure
- D. Perform a detailed cost-benefit analysis of security investments

Answer: B

**NEW QUESTION 46**

A logistics company is operationalizing an AI solution to optimize delivery routes. The project manager needs to gather up-to-date information on traffic patterns, delivery schedules, and vehicle performance.

Which method will integrate these diverse data types?

- A. Adopting a federated data model
- B. Using an extraction, transformation, and loading (ETL) pipeline
- C. Implementing a real-time data processing framework
- D. Building a unified data warehouse

Answer: B

**NEW QUESTION 47**

A project team is working on an AI project that requires strict adherence to data privacy regulations. The team is in the initial stages of data collection and aggregation. Which task will help to ensure regulatory compliance?

- A. Conducting a thorough data audit to identify sensitive information
- B. Implementing advanced encryption for all data transactions
- C. Developing a comprehensive data risk management plan
- D. Obtaining verbal commitments from stakeholders regarding data usage

Answer: A

**NEW QUESTION 48**

A healthcare provider had physicians review a potential diagnostic AI application. During their final review, the project team, along with the physicians, discovered that the AI model exhibits a higher than acceptable false-positive rate.

Before making the go/no-go AI decision, which next step should be performed by the team?

- A. Adjust the hyperparameters for better generalization
- B. Reevaluate the business objectives and outcomes
- C. Increase the training data volume
- D. Focus on the model's ethical implications

Answer: B

**NEW QUESTION 50**

A telecommunications company is implementing an AI-driven customer support system. The project manager is responsible for overseeing the data evaluation. They need to ensure that the AI system provides accurate and helpful responses to customer queries.

What is an effective method that helps to ensure these objectives are achieved?

- A. Conducting quarterly performance reviews using customer satisfaction surveys
- B. Implementing a static rule-based system alongside the AI system to handle complex customer questions
- C. Regularly updating the AI system's knowledge base with the latest information and feedback from customer interactions
- D. Relying on periodic training sessions for customer support staff to improve their understanding of the AI system

Answer: C

**NEW QUESTION 52**

A logistics company wants to optimize its delivery routes while adapting to real-time traffic conditions. Which AI pattern or patterns meet these goals?

- A. Recognition and content summarization
- B. Automation and rule-based systems
- C. Conversational
- D. Predictive analytics

Answer: D

**NEW QUESTION 57**

An AI project team is assessing the scalability of a healthcare solution. Which factor should the project manager consider to help ensure the solution is scalable?

- A. Compliance with data regulations
- B. Ability to handle increased loads
- C. Human oversight requirements
- D. Integration with the existing infrastructure

**Answer: B**

**NEW QUESTION 58**

A project manager is preparing a contingency plan for an AI-enabled underwriting platform. During outages, the business must still make time-sensitive decisions. What strategy best supports business continuity?

- A. Implement a manual override process with defined escalation and decision rules
- B. Stop all underwriting until the AI system returns
- C. Keep the AI system running without monitoring to avoid interruptions
- D. Only increase marketing to offset the outage

**Answer: A**

**NEW QUESTION 61**

A financial services firm is assessing the success of a newly operationalized AI system for fraud detection. The project manager needs to evaluate the model against business key performance indicators (KPIs).

What is an effective method to help ensure the accuracy of this evaluation?

- A. Implementing a single comprehensive metric
- B. Utilizing a diverse set of validation techniques
- C. Reviewing quarterly business financial reports
- D. Consulting with external experts and auditors

**Answer: B**

**NEW QUESTION 64**

A company's leadership team has requested insights into the AI model's ability to support decision-making processes without requiring them to understand complex technical details.

Which step should the project manager take?

- A. Explain the role of neural network architectures in prediction accuracy
- B. Describe the model's backpropagation and gradient descent optimization
- C. Discuss how ensemble methods improve the model's robustness
- D. Demonstrate how the model's output can be integrated and used in end-user systems

**Answer: D**

**NEW QUESTION 68**

A project manager is preparing a contingency plan for an AI-driven customer service platform. They need to determine an effective strategy to handle potential system downtimes. Which strategy addresses the project manager's objective?

- A. Developing an automated fallback chatbot with limited capabilities
- B. Providing extensive training to customer service representatives on handling AI failures
- C. Creating a robust customer service logging system to quickly identify and resolve issues
- D. Implementing a manual override system for critical customer queries

**Answer: D**

**NEW QUESTION 73**

During the configuration management of an AI/machine learning (ML) model, the team has observed inconsistent performance metrics across different test datasets.

What will cause the inconsistency issue?

- A. Overfitting the training data
- B. Low variance in the test results
- C. Insufficient model complexity
- D. Incorrect data preprocessing steps

**Answer: D**

**NEW QUESTION 78**

An aerospace engineering firm is developing a machine learning model to predict component failures. The project manager needs help to ensure the training data is representative of real-world scenarios. Which method will meet the project manager's objective?

- A. Implementing real-time data monitoring
- B. Analyzing competitor data
- C. Relying solely on synthetic data
- D. Using historical data from multiple sources

**Answer: D**

**NEW QUESTION 80**

A government agency is planning to implement a new AI-driven public service system. The project manager needs to develop a business case to secure funding. The agency's goals are to improve service delivery and reduce response times. Which method will provide the results that meet the project manager's objective?

- A. Analyzing case studies from other agencies
- B. Creating a detailed ROI projection
- C. Holding stakeholder workshops
- D. Conducting a pilot program

**Answer: B**

**NEW QUESTION 83**

In an aerospace manufacturing project, engineers are preparing data to train an AI system for predictive maintenance. They need to transform the data from multiple sensors and ensure it is consistent and accurate before building the model. What should the project manager do to handle the inconsistencies?

- A. Enhance the current data with additional sources
- B. Use data augmentation techniques to fill the gaps
- C. Implement a validation protocol for sensor data
- D. Identify and reconcile conflicting data points

**Answer: CD**

**NEW QUESTION 84**

Different AI project team members are responsible for various parts of the project, both cognitive and non-cognitive. The project manager needs to ensure effective accountability documentation. Which method will help to ensure accurate documentation?

- A. Implementing periodic documentation reviews by the project manager
- B. Creating separate documentation protocols for cognitive and non-cognitive parts
- C. Assigning documentation responsibilities to a dedicated documentation team
- D. Using a centralized documentation system accessible to all team members

**Answer: D**

**NEW QUESTION 86**

A project manager is tasked with ensuring that an AI project complies with data regulations before data collection begins. This involves identifying all necessary requirements for trustworthy AI, including ethical considerations, privacy, and transparency. What should the project manager do first?

- A. Perform a comprehensive assessment of data regulations and compliance requirements
- B. Draft a detailed data governance framework to be reviewed later
- C. Schedule a meeting with stakeholders to discuss potential data collection compliance issues
- D. Develop a high-level strategy for data collection and aggregation

**Answer: A**

**NEW QUESTION 88**

An AI project team in the healthcare sector is tasked with developing a predictive model for patient readmissions. They need to gather required data from various sources, including electronic health records (EHR), patient surveys, and clinical notes. The team is evaluating which technique will help to ensure the data is comprehensive and reliable. What is an effective technique the project team should use?

- A. Employing natural language processing (NLP) to extract relevant data from clinical notes
- B. Implementing data augmentation techniques to enhance dataset diversity
- C. Using federated learning to train models across decentralized data sources without centralizing data
- D. Utilizing real-time data integration from EHR systems to ensure data freshness

**Answer: A**

**NEW QUESTION 91**

An AI project team has completed an AI go/no-go assessment. They have discovered several technology and data factors to be insufficient. Which action should occur?

- A. Verify data quality and stakeholder alignment
- B. Proceed with development despite data issues
- C. Focus solely on technology upgrades, not data
- D. Launch the AI project without further assessment

**Answer: A**

**NEW QUESTION 94**

A telecommunications company is adopting an AI-based customer service chatbot. They are concerned about potential quality issues affecting customer satisfaction. What should the project manager do?

- A. Develop a comprehensive quality assurance plan for the chatbot
- B. Initiate a beta testing phase with a small group of customers
- C. Set up a dedicated team to monitor and address quality issues
- D. Conduct regular performance reviews and updates based on customer feedback

**Answer:** A

**NEW QUESTION 98**

A project team at a healthcare provider is determining whether their patient records are adequate for an AI diagnostic tool. They need to validate that the data covers a broad spectrum of conditions and demographics. What is an effective method to assure data suitability?

- A. Implementing a longitudinal data-gathering approach
- B. Performing demographic analysis and stratifying patient data
- C. Analyzing data variance and ensuring balanced sampling
- D. Conducting a cross-sectional study on data diversity

**Answer:** B

**NEW QUESTION 100**

In an aerospace project focused on predictive maintenance using AI, the project team is facing challenges in coordinating the AI models' operationalization across various manufacturing sites. Strong governance and corporate guardrails are established, but each site has different computational capabilities and network latencies.

What is an effective method that helps to ensure consistent AI performance across these sites?

- A. Using site-specific AI model tuning
- B. Operationalizing a decentralized AI architecture
- C. Implementing a centralized AI model repository
- D. Utilizing cloud-based AI services uniformly

**Answer:** D

**NEW QUESTION 101**

A government agency is adopting an AI/machine learning (ML) model to analyze large sets of public data for policy making. It is crucial that the project team ensures the accuracy of the model's predictions.

If the project team needs to validate the model, which action should they perform?

- A. Ensure adherence to coding standards.
- B. Conduct a single comprehensive validation.
- C. Utilize a diverse set of test cases.
- D. Implement continuous integration testing.

**Answer:** C

**NEW QUESTION 103**

A team is evaluating different AI models for their project. They are considering error rates and overall performance. If the team had selected a model based solely on the error rate, what would be the outcome?

- A. A potential to overlook other critical performance metrics
- B. A balanced performance across all metrics
- C. An increase in stakeholder satisfaction based on performance
- D. A better performance across the chosen domains

**Answer:** A

**NEW QUESTION 106**

A manufacturing company is considering implementing an AI solution to optimize its supply chain. The project manager needs to determine if AI is necessary for this task.

Which action will address the requirements?

- A. Determining the specific cognitive tasks that AI can perform within the supply chain
- B. Evaluating the scalability of AI solutions for supply chain optimization
- C. Assessing the cost-benefit ratio of an AI implementation for the supply chain
- D. Identifying noncognitive versus AI methods used in supply chain management

**Answer:** A

**NEW QUESTION 108**

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